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ABSTRACT

This book explores emerging technologies and their use in secondary and higher education and in private, corporate, and government training environments. In addition to providing specific classroom applications of technology, the book treats issues of research, technology assessment, legal, copyright, and privacy rights, ethical considerations, and the future of technology in education. Three parts include 25 chapters: Part 1: The Vision--(1) "In Search of the Electronic Classroom" (William M. Plater); (2) "Technology and the Inevitability of Educational Transformation" (George P. Connick and Jane Russo); (3) "Pedagogical Issues" (Ray L. Steele); (4) "Implementing the Vision: Electronic Classroom Design and Construction" (Garland Elmore and Ali Jafari); Part 2: Classroom Applications--(5) "Prototyping the Electronic Library: Using the Perseus Database to Teach Greek Culture" (Gregory Crane); (6) "Biology: A Field Trip to a Rocky Intertidal Zone" (Raymond J. Russo); (7) "Law in Action: Interactive Software for Learning and Doing" (Daniel Burnstein); (8) "Learning Introductory Physics with New Electronic Media" (Gregor M. Novak); (9) "Computer-Based Education and Decision Support in Medicine" (Robert Greenes); (10) "The Alternative Science Laboratory" (Stuart W. Bennett); (11) "Doing Chemistry with Technology" (Steven Gammon); (12) "Teaching Tools in Music" (G. David Peters and Darrell L. Bailey); (13) "Teaching Visual Analysis Using CAV Interactive Videodisk Technology" (Suzanne Regan); (14) "Instructional Technology in the Military" (Dexter Fletcher); Part 3: Extending the Classroom: Regional Networks--(15) "Computer Networking in Distance Education" (James D. Lehman); (16) "Teaching and Learning in the Extended Classroom: Nursing Telecourses" (Diane Billings); (17) "The Tools of Self-Direction: Student Services in the Electronic Classroom" (Pamela

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MacBrayne and Jane Russo); Part 4: Further Extending the Classroom: Global Networks--(18) "Cross-Cultural Team Teaching: Electronic Mail for Literary Analysis" (Helen Schwartz); (19) "Networked Collaborative Research and Teaching" (Armando A. Arias, Jr. and Beryl Bellman); (20) "Electronic Student Response Systems in Corporate Distance Education" (Barbara J. Garvin-Kester, Thomas A. Kester, and Alan G. Chute); (21) "BESTNET International: A Case Study in the Evolution from a Distance Education Experiment to a Virtual Learning Environment" (George S. Metes, Rodrigo Gutierrez S., Vincente Lopez Rocher, Armando Valdez, and Ricardo Jimenez); Part 5: Monitoring the Electronic Classroom--(22) "Using Formative Evaluation to Increase the Educational Effectiveness of Technology Products" (Karen J. Hoelscher); (23) "Working Together with Technology" (Linda S. Fowler); (24) "The Ethics of Teaching and the Teaching of Ethics" (Rushworth M. Kidder); and (25) "The Future of Electronic Education" (Robert A. Dierker). Includes chapter references and index. (JAK)

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